6AM5

POWER AMPLIFIER PENTODE

MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:			
Voltage	6.3		a.c. or d.c. volts
Current	0.2		amp.
Direct Interelectrode Capacitance (Approx.):			
Grid to Plate		0.5 max.	μμF
Input		4.2	μμF
Output		3.2	μμF

Mechanical:

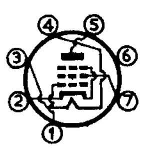
Mounting Position	Any
Maximum Overall Length	2-1/8"
Maximum Seated Height	1-15/16"
Maximum Diameter	3/4"
Bulb	T-5-1/2
Base	Miniature Button 7-Pin

Pin 1 - Grid No. 1

Pin 2 - Cathode and Grid No. 3

Pin 3 - Heater

Pin 4 - Heater



Pin 5 - Plate

Pin 6 - No Connection Do not use

Pin 7 - Grid No. 2

BOTTOM VIEW

AMPLIFIER - Class A_1

Pentode Connection

Maximum Ratings:

Plate Voltage	250 max.	volts
Grid No. 2 (Screen) Voltage	250 max.	volts
Plate Dissipation	4 max.	watts
Grid No. 2 (Screen) Dissipation	0.6 max.	watt
Plate Current	25 max.	mA
Peak Heater-Cathode Voltage	50 max.	volts

Typical Operation and Characteristics:

Single Valve Amplifier - Class A_1

Plate Voltage	200	250	volts
Grid No. 2 (Screen) Voltage	200	250	volts
Grid No. 1 (Control) Voltage	-7.5	-13.5	volts
Cathode Bias Resistance	330	750	ohms
Peak A.F. Grid No. 1 Voltage	-	7.5	volts
Plate Current	20	16	mA
Grid No. 2 Current	3	2.4	mA
Plate Resistance	-	0.15	megohm

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Mutual Conductance	-	2,600	µmhos
Amplification Factor	-	390	
Load Resistance	10,000	16,000	ohms
Total Harmonic Distortion	7	10	%
Max.-Sig. Power Output	1.25	1.4	watts

<u>Push Pull Amplifier - Class AB_1</u>

Values are for two valves

	Cathode Bias	Fixed Bias	
Plate Voltage	250	250	volts
Grid No. 2 (Screen) Voltage	250	250	volts
Grid No. 1 (Control) Voltage	-	-19	volts
Cathode Bias Resistance	600	-	ohms
Peak A.F. Grid No. 1 Voltage	34	37	volts
Zero-Sig. Plate Current	22	10	mA
Max.-Sig. Plate Current	25.6	32	mA
Zero-Sig. Grid No. 2 Current	3.2	1.3	mA
Max.-Sig. Grid No. 2 Current	8.2	9	mA
Load Resistance	24,000	20,000	ohms
Total Harmonic Distortion	3.2	3.3	%
Max.-Sig. Power Output	4	4.8	watts

<u>Amplifier - Class A_1</u>

Triode Connection #

Maximum Ratings:

Plate Voltage	250 max.	volts
Plate Dissipation	4.6 max.	watts
Plate Resistance †	3,850	ohms
Mutual Conductance †	3,000	µmhos
Amplification Factor †	11.5	

Screen tied to plate at socket

† Measured at Ebb = 250V Ec_1 = -13V.